STATE OF CALIFORNIA **CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD**

Base Year Modification Request Certification
Part 1: Generation Study - No Extrapolation Diversion Data

To request a substitution for a previously approved base-year used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 341-6199 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board
Office of Local Assistance
1001 I Street, 9th Floor
PO Box 4025
Sacramento, CA 95812-4025

General Instructions:

Please select the **ONE** choice below that best explains your request to the Board.

1. Use a recent generation-based study to calculate our current reporting-year generation amount, but not officially change our existing Board-approved base year.

X 2. Use a recent generation-based study to officially change our existing Board-approved base year to a new base year.

The cells on these sheets are protected except for the ones that need information. If you have problems using these sheets, please contact your Office of Local Assistance representative.

Section I: Jurisdiction Information and Certification

All respondents must complete this section.

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name: City of Brentwood		County: Contra Costa County	
Authorized Signature		Title: Solid Waste Manager	
Type/Print Name of Person Signing: Jon Carlson		Date	Phone ( ): (925) 634-0955
Person Completing This Form (please print or type): Jim Greco		Title: Recycling Consultant	
Affiliation: California Waste Associates			
Mailing Address: P. O. Box 5177	City: El Dorado Hills	State: CA	ZIP Code: 95762
E-mail address: jgwaste@aol.com			

Section II: Information for New Generation-Based Study for Existing or New Base Year

Attach additional sheets if necessary— reference each response to the appropriate cell number (e.g., 4).

Note: New base years must be representative of a jurisdiction's disposal and diversion.

1. Current Board-approved base-year:	**2.** Proposed new generation-based study year:
1990	**2000**

3. Explain how the proposed generation study year is representative of average annual jurisdiction disposal and diversion:

The City has experienced significant growth during the past decade. And during the last 5-6 years a number of programs have been developed and implemented. It is also felt that an updated diversion study with more accurate disposal reporting would result in a more accurate derivation of the city's estimated waste generation.

4. Enter your diversion rates below.

Diversion rate calculated using existing base year	**a. 39 %**	**Diversion rate calculated using new generation-based study**	**b. 58.7 %**
For existing base year pounds/person/day based on generation	**6.8**	**For new generation based study pounds/person/day based on generation**	**11.7**
Residential generation 37%	**Non-Residential Generation 63%**	**Residential generation 35%**	**Non-Residential Generation 65%**
Population existing generation-based study	7,563	**Population new generation-based study**	21,950

5. If there is an increase between 4a and 4b, please explain how the new diversion rate is consistent with your current diversion implementation efforts. If the proposed new generation tonnage results in an increase in your pounds/person/day, please explain how this is consistent with your current diversion implementation efforts and provide any examples, e.g. change in jurisdiction's demographics.

The new diversion rate is the result of a detailed Generation Study. The new study accounts for tonnages using actual volumes and weights, whereas the 1990 base year study established tonnages based on estimations. The new study reflects the actual diversion activities within the City, as well as provides a tool to predict further need, and success, of existing diversion programs and those planned for expansion or new implementation. The City has experienced much commercial and residential growth. New diversion programs, educational outreach, and technical assistance programs have been piloted or implemented in the City, as described in the PARIS section of the City's Annual Report. As the City grows, it is further committed to pursuing continued increases in recycling by further improving and expanding programs and diversion opportunities.

6. If the difference between the proposed diversion rates in 4a and 4b is greater than 5 percentage points, please explain the specific reasons for the difference. (For example: new/improved curbside diversion programs.)

The City has implemented a significant number of diversion programs since 1990. With the growth of the economy of the City, waste reduction and recycling needs and efforts have also expanded. The City has expanded and improved existing programs through city provided curbside collection of recyclables and yard waste and affiliated businesses. The default adjustment method does not accurately reflect the impact of the diversion programs and does not accurately reflect the increase in the growth of the community. Just as the 1990 base year study based tonnages on estimation rather than actual weights, many diversion activities were not accurately identified in the 1990 base year study. The new 2000 study has enabled the City to gain a clearer understanding of the existing disposal and diversion activities and also provided information for additional programs.

7. Disposal Tonnage: (enter values)	9,684	9684	19368
	Residential	Non-Residential	**Total**

Please select the **ONE** choice below that best explains your **disposal** data and complete the required tables.

a. All tons claimed are from the Board's Disposal Reporting System (No explanation required. Go to Section 8.)

b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage. (Please complete Reporting Year Tonnage Request and Modification Certification sheet found at http://www.ciwmb.ca.gov/lgcentral/forms/rytnmdrq.doc)

X c. Some Disposal Reporting System data were corrected. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at http://www.ciwmb.ca.gov/lgcentral/forms/rytnmdrq.doc)

8. In the table below, list the summarized diversion activities, and diversion data records that support your claim and are available for Board audit. (Note: The Board expects the jurisdictions to be able to provide all back-up documentation, if requested) Include type of record and location—for example, weight tickets from transfer stations. This section should capture all diversion tonnage (form will perform all addition calculations). If any diversion is from restricted wastes, [agricultural wastes,inert solids (e.g., concrete, asphalt, dirt, etc.), white goods, and scrap metal] please identify those programs/waste types and fill out section 10. Please mark as Attachment 8 all copies of survey forms.

*Please provide detailed non-Residential waste audit information in Section 9.

Diversion Activity Please use the Board's program types. The program type glossary is online at: http://www.ciwmb.ca.gov/lgcentral/paris/codes/reduce.htm	Actual tons (A)	Relative Percent to Total Generation (A/Total Generation)	Specific material type(s) (List operation w/multiple materials in one box)	Specific conversion factor used (if any) and Source	Type of record and location of record
Residential Activities:					
Source Reduction					
Yard/Garage Sales (PARIS 1060)	54.00	0.12%	various household items	760 lbs./garage sale (City perfomed study)	Classified ads & Study summary memo (Appendix G)
Other Residential source reduction (list each program separately)					
		0.00%			
Enter program name		0.00%			
Enter program name		0.00%			
Enter program name		0.00%			
Enter program name		0.00%			
Subtotal Residential Source Reduction	**54.00**	**0.12%**			
Recycling					
Curbside Recycling (PARIS 2000)	3,221.00	6.88%	Mixed paper, news, CB, and container materials (Al, plastic, glass, metal cans)	Actual weight (Source: City Operations)	Billing Tickets (SEE ATTACHED)
Buyback Centers (PARIS 2020)	5.00	0.01%	CRV containers	Actual weight (Source: DOC)	DOC ; letter/report (Appendix K)
Drop-off Centers (PARIS 2010)	4.00	0.01%	Cardboard, newspaper, mixed container materials (includes DOC CRV)	Actual Weight (Source: City Solid Waste Division)	City SWD report (Appendix J)
Other Residential recycling (list each program separately)					
Special/Xmas Trees (PARIS 2070)	38.00	0.08%	Christmas Trees	10 lb./tree (Source: City Solid Waste Division) 3,000 trees	City SWD (SEE RESPONSE LETTER)
Enter program name					
Enter program name					
Enter program name					
Subtotal Residential Recycling	**3,268.00**	**6.98%**			
Composting					
Curbside GW (PARIS 3000)	3,219.00	6.87%	Yard Waste	Actual Weight (source: City Operations)	City SWD (SEE ATTACHED)
Other Residential composting (list each program separately)					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Subtotal Residential Composting	**3,219.00**	**6.87%**			

Subtotal Residential Diversion	**6,541.00**	**13.96%**			
Non-Residential Activities:					
Source Reduction					
Non-Residential Waste Audits*	3,638.00	7.77%			
Other non-Residential source reduction (list each program separately)					
City Park grasscycling	346.11	0.74%	Grass clippings	0.1466 tons/week, 52.5 mowable acres. (Source: CIWMB)	City park Records (Appendix E)
Enter program name					
Enter program name					
Subtotal Non-Residential Source Reduction	**3,984.11**	**8.51%**			
Recycling					
Non-Residential Waste Audits*	5,929.14	12.66%			
Other non-Residential recycling (list each program separately)					
ADC (PARIS 7040)	2,858.00	6.10%	C&D, GW, sludge (SEE ATTACHED) mixed	Actual weight (source: CIWMB DRS)	CIWMB DRS
Subtotal Non-Residential Recycling	**8,787.14**	**18.76%**			
Composting					
Non-Residential Waste Audits*	284.00	0.61%			
Other non-Residential composting (list each program separately)					
Enter program name					
Enter program name					
Subtotal Non-Residential Composting	**284.00**	**0.61%**			
Subtotal Non-Residential Diversion	**13,055.25**	**27.87%**			
Residential/Non- Residential Diversion Activities					
Rubble/Asphalt/Concrete (PARIS 4060)	7,875.00	16.81%	Inerts (asphalt grindings, pavement)	Actual Weight: City Engineer project report	Provided
Subtotal Residential/Non-Residential diversion	**7,875.00**	**16.81%**			
Total Diversion Tons	**27,471.25**	**58.65%**			
Total Disposal Tons from Sec.7	**19,368.00**	**41.35%**			
Total Generation Tons (Div+Dis)	**46,839.25**				

9. Specific Non-Residential Sector Waste Audits-Top 10 Non-Residential Generators

Please complete this table for the top 10 non-residential generators that were surveyed. List each non-residential generator separately from largest to smallest, based on total diversion tons. Audit reference number ties to your audit sheets.
(Form will perform all addition calculations).
Please provide an attachment 9 which includes all of the generators surveyed. Include for each generator (use type of generator in lieu of specific business name) diversion activity and material type and associated tonnage for each diversion activity/material type. Include copies of survey form(s) used.

Type of Non-residential Generator	Audit Reference Number *	Specific/Major Diversion Activities include material type (e.g. paper recycling, grasscycling). (List activities on one line)	Source Reduction Tons	Recycling Tons	Composting Tons	Total Diversion Tons	Percent of Total Generation (Total Diversion Tons/Total Generation in Section 8)	Survey Method Phone (P) Mail (M) On-site (O) Other ___
Hauler A	1	Manure diversion, inerts recycling		2744.00	240.00	2984.00	6.4%	**P, M, O**
Golf Course	2	Grasscycling, some container recycling	1868.00	0.25		1868.25	4.0%	**P, O**
Print	3	Paper plant (news, mixed paper)		1008.00		1008.00	2.2%	**P**
Bldg Contractor A	4	Mixed Lumber, inerts processing		772.00		772.00	1.6%	**P**
Grocer A	5	Produce donations; CB, plastic recycling, rendering	213.00	543.00		756.00	1.6%	**P, O**
Bldg Contractor B	6	CB recycling; scrap metals, wood, inerts diversion,		742.00		742.00	1.6%	**P**
Grocer B	7	CB, mixed paper recycling; wood diversion; rendering		262.00		262.00	0.6%	**P**
Grocer C	8	Produce donations; CB, plastic recycling, rendering	6.00	246.00		252.00	0.5%	**P, O**
Bldg Contractor C	9	mixed lumber; wood, inerts diversion		184.00		184.00	0.4%	**P**
Processor	16	scrap metals, mixed C&D		696.00		696.00	1.5%	**P, M**
Totals			**2087.00**	**7197.25**	**240.00**	**9524.25**	20.3%	

* Please see Table 3 in the report titled "Base Year Modification Request for the City of Brentwood" dated September 25, 2003.

10. For each restricted waste type [i.e., agricultural waste, inert solids, (e.g. concreter, asphalt, dirt, etc.) scrap metals and white goods (PRC Section 41781.2)] and associated program, please provide the following information:

a. If the diversion program started on or after January 1, 1990, complete the following table
(Note: program name refers to one specific diversion program for that waste type; (e.g., diversion conducted by City Public Waste Dept).

Restricted Waste Type	Specific Program name	Year started	Tonnage
Inerts	Please see Table 5. Supplemental data.		See Table 5
Scrap Metals	Please see Table 5. Supplemental data.		See Table 5

b. If the diversion program started before January 1, 1990, on a separate sheet, marked attachment 10b, provide the following documentation: (Note: If documentation for a waste type and program has already been approved by the Board, you do not have to provide an attachment 10b for that waste type and program.
Instead please provide date of Board approval of preciously submitted information. _____ (Date)
If documentation is not available, go to 10d.

- How the diversion was the result of a local action taken by the jurisdiction, which specifically resulted in the diversion [PRC Sec. 41781.2 (c) (1)].
- That the amount of that waste type diverted from the jurisdiction in 1990 was less than or equal to the amount of that waste type disposed at a permitted disposal facility by the jurisdiction in any year before 1990. (Note: this criterion is applicable to the entire jurisdiction, not to individual programs
[PRC Sec. 41781.2 (c) (2)]).
- The jurisdiction is implementing, and will continue to implement, the diversion programs in its Source Reduction and Recycling Element.

c. If the diversion program started before January 1, 1990, and the documentation requested in 10b is available (but not yet approved by the Board), complete the table below for each program claimed:

Restricted Waste Type	Specific Program Name	New base year or reporting year diversion tonnage

d. If the diversion program started before January 1, 1990, and the documentation requested in 10b is not available, please complete the table below for each program claimed. (***Note****: Only the difference between the new base year/reporting year and 1990 can be counted in the diversion rate calculation.)*

Restricted Waste Type	Specific Program name	New base year or reporting year tonnage	1990 diversion tonnage	Difference
pull down for waste types				
pull down for waste types				
pull down for waste types				
pull down for waste types				
pull down for waste types				
pull down for waste types				

Attachment 9

Business Audit Diversion for the City of Brentwood

Reference Number	Business Type	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduc-tion	Recy-cling	Compos-ting	Total Tons
1	Hauler A	Composting	Manure	44lbs/horse (source: business records)			240	240
		Recycling	C&D	Actual weights per business records		643.89		643.89
		Reuse	asphalt grindings	45 lbs. cu ft (source: FEECO)	1,500			1500
		recycling	concrete	1855 lbs/cu yd (source: Tellus)		600		600
					1500	1243.89	240	2983.89
2	Golf Course	Grasscycle	grass clippings	245/acresx 0.1466 tons/week x 52 wks (source: EPA)	1,868			1,868
		Recycling	CRV containers	500 lbs received yearound at recycling conatiners around course (source: business estimate)		0.25		0
					1868	0.25	0	1868.25
3	US Print	Recycling	Paper	Actual weights per business records(source: Sutta Recycling)		1,008		1,008
					0	1008	0	1008
4	Bldg Contractor A	Recycling	mixed lumber	329.5 lbs/cu yd (source: EPA)		520		520
		Recycling	inerts	1855 lbs/cu yd (source: Tellus)		252		252
					0	772	0	772
5	Grocer A	Composted	Produce	Actual weight (source: Headquarters report)	213			213
		Recycling	cardboard	Actual weight (source: Headquarters report)		379		379
		Recycling	Plastic	Actual weight (source: Headquarters report)		117		117
		Rendering	Bone & fat	Actual weight (source: Headquarters report)		47		47
					213	543	0	756
6	Bldg Contractor B	Recycling	cardboard	100 lbs/cu yd (source: EPA)		19		19
		Recycling	scrap metal	906 lbs/cu yd (source: Tellus)		9		9
		Recycling	mixed lumber	329.5 lbs/cu yd (source: EPA)		504		504
		Recycling	inerts	1855 lbs/cu yd (source: Tellus)		210		210
					0	742	0	742
7	Grocer B (2 stores)	Recycling	OCC & mixed paper	Actual weights (source: Recycled Fibers)		39		39
		Recycling	OCC & mixed paper	Actual weights (source: Recycled Fibers)		117		117
		Recycling	pallets	40lbs/pallet (source: EPA)		47		47
		Recycling	pallets	40lbs/pallet (source: EPA)		21		21
		Rendering	Bone & Fat	42 lbs. barrel (source: business estimate)		38		38
					0	262	0	262
8	Grocer C	Donations	Damaged can food	Actual weight - headquarters report	6			6
		Recycling	cardboard	Actual weight - headquarters report		231		231
		Recycling	PET/HDPE	Actual weight - headquarters report		3		3
		Rendering	Bone & fat	Actual weight - headquarters report		12		12
					6	246	0	252
9	Bldg Contractor C	Recycling	mixed C&D	Business estimate - headquarters report		27		27
		Recycling	mixed lumber	329.5 lbs/cu yd (source: EPA)		57		57
		Recycling	inerts	1855 lbs/cu yd (source: Tellus)		100		100
					0	184	0	184
10	Retail Tire Store	Recycling	Tires	800 x 20lbs./tires		96		96
					0	96	0	96
11	Apartment A	grasscycling	grass clippings	.82 acres x 0.1466 tons/week x 35 weeks (source: EPA)	8			8
		Composting	greenwaste	(source: business estimate)			37	37
					8	0	37	45
12	HOA	grasscycling	grass clippings	1.5 acres x 0.1466 tons/week x 35 weeks (source: EPA)	8			8
		Composting	greenwaste	(source: business estimate)			7	7
					8	0	7	15
13	Donations	material exchange	clothing	10ftx20ft trailer weights 2,750 lbs (source: Goodwill estimate)	35			35
					35	0	0	35
14	Hauler B	Recycling	Various	Actual weight		54		54
					0	54	0	54
15	Pharmacy A	Recycling	OCC & mixed paper	2.5 tons/2 months x 6 months (Source: Smurfit Recycling)		15		15
					0	15	0	15
16	Processor	Recycling	Scrap Metal	906 lbs/cu yd (source: Tellus)		216		216
		Recycling	C&D	Proprietary Data (source: business estimate)		480		480
					0	696	0	696
17	Bldg Contractor D	Recycling	mixed lumber	329.5 lbs/cu yd (source: EPA)		7		7
		Recycling	Inerts	1855 lbs/cu yd (source: Tellus)		50		50
					0	57	0	57
18	Bldg Contractor E	Recycling	mixed lumber	329.5 lbs/cu yd (source: EPA)		10		10
					0	10	0	10

	Source Reduc-tion	Recy-cling	Compos-ting	Total Tons
Totals	3,638.00	5,929.14	284.00	9,851.14